BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of Work: Improvements and Asphalting 22nd Cross (Pipeline road) Bhuvaneshwarinagara 1st main & 1st A main road Brundavana Extn (From Pipeline road) in Bagalagunte Ward No.14, T.Dasarahalli Sub Division.

			Est. Cost Rs.				25.00	Lakhs	
Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.142/I.19.1 PW, P & IWTD -SR 2016-17)								
	22nd Cross Pipe line road	Cum	1	150.00	1.50	0.30	67.50		
	1st, 1st A Main & 22nd Cross		1	328.00	5.00	0.30	492.00		
	For CC road		1	100.00	3.20	0.30	96.00		
							655.50	86.92	56976.00
	Basic Rate	82.00							
	Add Area Weightage 6%	4.92							
	Total	86.92							
2	KSRRB M400-1 For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material .Page No 155/ Item No. 20.6.1 PWD SR 2016-17								
	22nd Cross Pipe line road	Cum	1	150.00	1.50	0.10	22.50		
	1st, 1st A Main & 22nd Cross		1	328.00	5.00	0.10	164.00		
	Basic Rate	1433.00					186.50	1518.98	283290.00
	Add Area Weightage 6%	85.98							
	TOTAL	1518.98							
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2016-17)								
		Cum	1	100.00	3.20	0.15	48.00		

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	4867.00					48.00	5159.02	247633.00
	Add Area Weightage 6%	292.02							
	Total	5159.02							
4	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix M1:2:4 with cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/1.4.6) PW, P & IWTD - SR 2016-17)								
		Cum	1	100.00	3.20	0.10	32.00		
	Basic Rate	5441.00					32.00	5767.46	184559.00
	Add Area Weightage 6%	326.46							
	Total	5767.46							
5	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2016-17, P.No.158, I No.20.18)								
	22nd Cross Pipe line road	Cum.	1	150.00	1.50	0.23	51.75		
	1st, 1st A Main & 22nd Cross		1	328.00	5.00	0.23	377.20		
	Basic Rate	1668.00					428.95	1768.08	758418.00
	Add Area Weightage 6%	100.08							
	Total	1768.08							
6	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2016-17, P.No.161, I No.21.6)								
	22nd Cross Pipe line road	Sqm	1	150.00	3.50		525.00		
							525.00	27.56	14469.00
	Basic Rate	26.00							
	Add Area Weightage 6%	1.56							
	Total	27.56							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 **Page No.161/ Item No. 21.2/ PWD SR 2016-17**								
	22nd Cross Pipe line road	Sqm	1	150.00	3.50		525.00		
							525.00	3.18	1670.00
	Basic Rate	3.00							
	Add Area Weightage 6%	0.18							
	Total	3.18							
8	KSRRB 500-7: Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 161/ Item No. 21.7/ PWD SR 2016-17								
	22nd Cross Pipe line road	Sqm	1	150.00	3.50		525.00		
							525.00	11.66	6122.00
	Basic Rate	11.00							
	Add Area Weightage 6%	0.66							
	Total	11.66							
9	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 20156-17, P.No.161, I No.21.11.6)								
	22nd Cross Pipe line road	Cum	1	150.00	1.50	0.05	11.25		
	Basic Rate	4941.00					11.25	5237.46	58921.00
	Add Area Weightage 6%	296.46							
	Total	5237.46							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
10	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509, using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-165, lt 21.22.6) PWD SR 2016-17								
	1st, 1st A Main & 22nd Cross	Cum	1	328.00	5.00	0.045	73.80		
	22nd Cross Pipe line road		1	150.00	5.50	0.045	37.13		
	Basic Rate	6859.00					110.93	7270.54	806485.00
	Add Area Weightage 6%	411.54							806521.00
	Total	7270.54							
11	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 133 Item No. 17.1 PWD SR 2016-17								
		Cum	Qty Vide Item No. 1				655.50	85.65	56142.00
	Loading and Unloading	68.00						80.80	52964.00
	Lead 4 KMs	12.80							
		80.80							
	Add Area Weightage 6%	4.85							
	Total	85.65							
12	Quality control Test Charges 1%								25000.00
									315.00
13	Miscellaneous and UnforessenCharges								3457.00
								Total	2500000.00

(Rupees Twenty Five Lakhs Only)

CERTIFICATE:-

1. The Work spot has been inspected and the work is found to be necessary
2. The Estimate is prepared as per the PW,P & IWTD -SR-2016-17
3. The Provision made in estimate are adequate and essential
4. This area comes under BBMP limits

Assistant Engineer
Bagalagunte Ward 14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.